## **EARTHWORK SCHEDULE**

LOCATION	END AREAS				TOPSOIL EARTH WORK					SUBGRADE IMPROVEMENT			DITCHES	
	TOPSOIL	UNDERCUTS	CUT	FILL	20201200	20200100			20300100	20201200	XZ191300	21001000	21400100	
	STRIPPING		(C)	(F)	REMOVAL &	EARTH	<b>EMBANKMENT</b>	FURNISHED	CHANNEL	REMOVAL &	AGGREGATE	GEOTECHNICAL	GRADING AND	
	(TSS)				DISPOSAL OF	EXCAVATION		BALANCE	EXCAVATION	DISPOSAL OF	SUBGRADE	FABRIC FOR	SHAPING	
	` ´				UNSUITABLE			WASTE (+) or		UNSUITABLE	(UNDERCUTS)	GROUND	DITCHES	
					MATERIAL			SHORTAGE (-)		MATERIAL		STABILIZATION		
	(SQ FT)	(SQ FT)	(SQ FT)	(SQ FT)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(SQ YD)	(FOOT)	
MAINLINE														
14+80.00	1.2	13.3	19.2	0.6						35.1	35.1	75.1		
15+00.00	3.7	13.2	16.5	1.2	1.8	13.2	0.7	10.6		46.5	46.5	157.6	50.0	
15+26.00	14.8	13.0	14.4	4.0	8.9	14.9	2.5	10.1		48.2	48.2	154.9	63.0	
15+50.00	14.2	20.9	27.2	19.7	12.9	18.5	10.5	5.2		117.2	117.2	332.9		
16+00.00	25.0	36.7	49.7	64.6	36.3	71.2	78.1	-17.5		142.6	142.6	388.5		
16+50.00	27.7	36.8	60.2	88.0	48.8	101.8	141.3	-54.8		135.8	135.8	350.7		
16+87.20	28.4	79.2	67.0	77.1	38.7	87.6	113.7	-39.3		56.4	56.4	142.0		
17+00.00	28.9	76.5	74.2	81.4	13.6	33.5	37.6	-9.1		72.2	72.2	186.5		
17+16.20	30.2	75.2	85.8	109.7	17.7	48.0	57.3	-16.5		6.2	6.2	16.3		
BRIDGE														
18+49.87	20.1	65.2	11.5	125.6						6.1	6.1	17.2		
18+79.87	21.6	64.7	9.8	86.6	23.2	11.8	117.9	-107.8		117.2	117.2	320.4		
19+00.00	22.8	29.1	0.9	137.1	16.6	4.0	83.4	-80.0		69.3	69.3	190.6		
19+50.00	20.5	32.5	3.9	119.8	40.1	4.4	237.9	-234.1		143.7	143.7	409.5		
20+00.00	20.6	31.7	7.6	113.4	38.1	10.7	215.9	-206.9		141.3	141.3	420.3		
20+50.00	19.0	14.9	20.1	26.1	36.7	25.7	129.2	-107.4		117.3	117.3	376.0		
21+00.00	21.2		28.9	15.6	37.2	45.4	38.6	-0.0	-	47.5	47.5	157.8		
21+50.00	18.8		33.0	3.0	37.0	57.3	17.2	31.5						
21+80.00					10.4	18.3	1.7	13.9						
CHANNEL									-					
1+00.00			209.5											
1+21.20			234.4	-					164.5					
1+38.00			362.0	***************************************					138.1					
1+50.00			374.7	<b>V</b>					132.5					
1+61.00			376.1						150.1					
1+74.20			340.9						183.5					
1+87.70			179.6						179.3					
1+99.00			125.7						108.9					
SHRINKAGE F	ACTOR	15%		TOTAL	417.9	566.2	1,283.5	-802.2	1,056.9	1,302.8	1,302.8	3,696.1	113.0	
- ammonde l	,,,,,,,,,,	1370	ΛΙ	DJ. PLAN TOTAL	<u> </u>	570.0	1,285.0	-805.0	1,060.0	1,305.0	1,305.0	3,700.0	113.0	

## BALANCE BETWEEN SIDES OF CREEK

	20200100		20400800		
			FUNISHED		
LOCATION	EARTH EXC.	<b>EMBANKMENT</b>	<b>EXCAVATION</b>		
WEST	389	442	-112.00		
EAST	177	838	-688.00		
TOTAL	566	1280	-800.00		

## EARTHWORK GENERAL NOTES

ALL EARTHWORK QUANTITIES ARE CALCULATED BY THE METHOD OF AVERAGE END AREAS USING THE PLAN CROSS SECTIONS.

SHRINKAGE FACTOR, ASSUMED TO BE 15% FOR THIS PROJECT, ARE ESTIMATED FOR THE PURPOSE OF DETERMINING A BALANCE OF EARTHWORK. THE CONTRACTOR SHALL ESTIMATE HIS OWN SHRINKAGE FACTORS IN DETERMINING HIS EARTHWORK. NO PAYMENT WILL BE MADE ON EARTHWORK QUANTITIES DUE TO VARIATION IN THE SHRINKAGE FACTOR SINCE EARTHWORK IS MEASURED IN ITS FINAL POSITION.

RECOMMENDATIONS OUTLINED IN THE ROADWAY GEOTECHNICAL REPORT PREPARED BY TESTING SERVICE CORPORATION, DATED AUGUST 10, 2007 WERE USED IN PREPARATION OF THE ROADWAY PLANS AND RELATED EARTHWORK CALCULATIONS.

AS OUTLINED IN THE ROADWAY GEOTECHNICAL REPORT, THE TOPSOIL THICKNESS WAS ESTIMATED AT 3-8 INCHES, SIX (6) INCHES WAS ASSUMED ON THIS PROJECT FOR THE PURPOSE OF CALCULATING TOPSOIL STRIPPING QUANTITIES.

IF UNDERCUTS ARE ENCOUNTERED, UNDERCUTS WILL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL. AFTER TOPSOIL STRIPPING AND VEGATATION CLEARING AND PRIOR TO UNDERCUTTING, THE SUBGRADE WILL BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER IN ACORDANCE WITH THE IDOT SUBGRADE STABILITY MANUAL TO DETERMINE REMEDIAL TREATMENT.

TESTING OF SUBGRADES AND EMBANKMENTS WILL BE REQUIRED. TESTING REQUIRMENTS WILL BE PER THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS AND THE SUBGRADE STABILITY MANUAL. IF PROOF ROLLS ARE REQUIRED BY THE ENGINEER, THE COST SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

EARTH EXCAVATION SHALL BE PAID FOR ONLY ONCE, REGARDLESS OF STAGING OR SEQUENCING OF CONTRACTORS OPERATIONS THAT REQUIRE STOCKPILING OF MATERIALS FOR LATER USE, REDISTRIBUTION AND RESPREADING IN SHOULDERS AND CONSTRUCTING OF EMBANKMENTS.

FURNISHED EXCAVATION IS REQUIRED BASED ON THE ASSUMPTIONS FROM THE FURNISHED EXCAVATION TABLE. UNDERCUTS QUANITIES HAVE BEEN CALULATED BASED ON THE FOLLOWING UNDERCUT RECOMMENTATIONS:

STA. 15+35 TO BRIDGE: UNDERCUT 12" AND REPLACE WITH 18" AGG SUBGRADE. BRIDGE TO STA. 20+32: UNDERCUT 12" AND REPLACE WITH 18" AGG SUBGRADE. STA. 20+32 TO STA. 23+50: NO SPECIAL TREATMENT SUGGESTED. UNDERCUT DEPTHS BASED ON ASSUMPTION THAT FINAL SUBGRADE WILL BE ABOUT 1.5 FEET BELOW PROPOSED ROAD CENTERLINE ELEVATION.

	WILLS BURKE KELSEY ASSOCIATES L	т.
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V	(630) 443-7755	

USER NAME = \$USER\$	DESIGNED	-	DPB	REVISED	-
	DRAWN	-	NDP	REVISED	-
PLOT SCALE =	CHECKED	-	SBP	REVISED	-
PLOT DATE = 7/6/2011	DATE	-	7/8/11	REVISED	-

## STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES								SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			5355	04-00167-00-BR	DEKALB	88	16					
					CONTRACT	NO.874	191					
	SCALE:	SHEET NO. 16 C	F 88 SI	HEETS	STA.	TO STA.	FED. RO	FED. ROAD DIST. NO. 3 ILLINOIS FED. AID PROJECT				